

Application No. 10/669,580
Amendment filed with RCE

Customer No. 01933

REMARKS

Reconsideration of this application, as amended, is respectfully requested.

THE CLAIMS

Independent claims 7 and 12 have been amended to recite the features of the present invention whereby the x-logarithmic scale plotting control unit controls plotting of logarithmic scales for the x-coordinate range such that the determined number of logarithmic scales for the x-coordinate range are plotted when the x-axis is selected to be set as the logarithmic x-axis, and such that no scales are plotted for the x-coordinate range when the x-axis is not selected to be set as the logarithmic x-axis; and whereby the y-logarithmic scale plotting control unit controls plotting of logarithmic scales for the y-coordinate range such that the determined number of logarithmic scales for the y-coordinate range are plotted when the y-axis is selected to be set as the logarithmic y-axis, and such that no scales are plotted for the y-coordinate range when the y-axis is not selected to be set as the logarithmic y-axis.

In addition, independent claims 7 and 12 have been amended to recite the feature of the present invention whereby the logarithmic graph plotting control unit plots on a display screen a logarithmic graph corresponding to the plotted logarithmic

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scales corresponding to the selected at least one of the x- and y-axes when the at least one of the x- and y-axes is selected, and whereby the logarithmic graph plotting control unit plots on the display screen an ordinary graph corresponding to the x- and y-axes when neither of the x- and y-axes is selected to be set as the corresponding logarithmic x- and y-axes.

See, for example, Fig. 2C (two logarithmic axes), Fig. 6B (an ordinary graph) and Fig. 6C (one logarithmic axis).

No new matter has been added, and it is respectfully requested that the amendments to the claims be approved and entered.

THE PRIOR ART REJECTION

Claims 7-9, 11 and 12 were rejected under 35 USC 103 as being obvious in view of the combination of "OrCAD Pspice Quick Reference" OrCAD™, Inc. ("OrCAD") and "How to Get Started with Pspice? (for beginners)" by Jan Van der Spiegel ("Spiegel"), backed by "Lab 1 Help," identified by the Examiner as "Pspice lab from school of Electrical Engineering, University of Toronto, from Internet Archive" ("Lab 1 Help") and Official Notice; and claim 10 was rejected under 35 USC 103 as being obvious in view of the combination of OrCAD, Spiegel, Lab 1 Help and "Brief Spice Tutorial" for Fall 2002 from the University of Utah ("Brief Spice

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Tutorial"). These rejections, however, are respectfully traversed with respect to the claims as amended hereinabove.

According to the present invention as recited in amended independent claim 7 (and corresponding amended independent computer program claim 12), a logarithmic graph plotting apparatus is provided, which comprises, in particular: (a) an x-logarithmic scale plotting control unit for controlling plotting of logarithmic scales for the x-coordinate range such that the determined number of logarithmic scales for the x-coordinate range are plotted when the x-axis is selected to be set as the logarithmic x-axis, and such that no scales are plotted for the x-coordinate range when the x-axis is not selected to be set as the logarithmic x-axis; (b) a y-logarithmic scale plotting control unit for controlling plotting of logarithmic scales for the y-coordinate range such that the determined number of logarithmic scales for the y-coordinate range are plotted when the y-axis is selected to be set as the logarithmic y-axis, and such that no scales are plotted for the y-coordinate range when the y-axis is not selected to be set as the logarithmic y-axis; and (c) a logarithmic graph plotting control unit for plotting on a display screen a logarithmic graph corresponding to the plotted logarithmic scales corresponding to the selected at least one of the x- and y-axes when the at least one of the x- and y-axes is selected, and for plotting on the display screen an ordinary

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graph corresponding to the x- and y-axes when neither of the x- and y-axes is selected to be set as the corresponding logarithmic x- and y-axes.

That is, according to the claimed present invention, logarithmic scales are plotted for the corresponding x- and/or y-axis if the x- and/or y-axis is set as a logarithmic axis, and no scales are plotted for the x- and/or y-axis if the x- and/or y-axis is not set as a logarithmic axis. In addition, according to the claimed present invention, a logarithmic graph is plotted that corresponds to the selected logarithmic x- and/or y-axis if one of the x- and y-axes is selected to be logarithmic, and an ordinary graph is plotted if neither of the axes is set as a logarithmic axis.

Logarithmic graphs include graphs with one of the x- or y-axes set as a logarithmic axis, and graphs with both x- and y-axes set at logarithmic axes. And with the structure of the present invention as recited in amended independent claims 7 and 12, it is possible to determine easily whether a graph is logarithmic and which axes are set as logarithmic axes, simply by checking whether logarithmic scales are plotted for the respective axes of the graph.

It is respectfully submitted that none of the cited references disclose, teach or suggest these features of the

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claimed present invention as recited in amended independent claims 7 and 12.

Indeed, it is respectfully pointed out that page 9 of Brief Spice Tutorial merely shows a logarithmic graph with graduation lines (see the toolbar in the image on page 9 of Brief Spice Tutorial to see that the horizontal axis of the graph is logarithmic). In addition, it is respectfully pointed out that page 6 of Spiegel merely shows an ordinary graph with scales, and that Figs. 4 and 12, for example, of previously cited "Loudspeaker Voice-Coil Inductance Losses: Circuit Models, Parameter Estimation, and Effect on Frequency Response" by Marshall Leach ("Leach") merely show an ordinary graph without scales (Fig. 4) and a logarithmic graph with scales (Fig. 12).

In summary, it is respectfully submitted that none of the prior art of record discloses, teach or suggests the features of the present invention as recited in amended independent claims 7 and 12 whereby logarithmic scales are plotted for an axis (axes) set as logarithmic, and no scales are plotted for an axis (axes) not set as logarithmic, and whereby a logarithmic graph is plotted corresponding to the plotted logarithmic scales corresponding to the selected at least one of the x- and y-axes when the at least one of the x- and y-axes is selected, and an ordinary graph is plotted corresponding to the x- and y-axes when

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neither of the x- and y-axes is selected to be set as the
corresponding logarithmic x- and y-axes.

In view of the foregoing, it is respectfully submitted that
amended independent claims 7 and 12, as well as claims 8-11
depending from claim 7, clearly patentably distinguish over all
of the cited references, taken singly or in any combination,
under 35 USC 103.

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Entry of this Amendment, allowance of the claims and the
passing of this application to issue are respectfully solicited.

If the Examiner has any comments, questions, objections or
recommendations, the Examiner is invited to telephone the
undersigned at the telephone number given below for prompt
action.

Respectfully submitted,



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